

## Active Atlantic hurricane season was a 'gentle giant' for U.S.

November 30 2010

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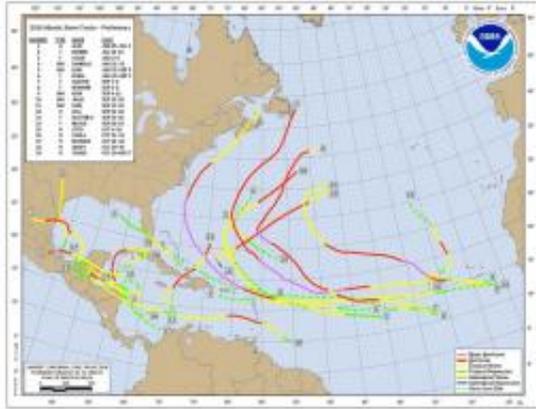
Hurricanes Karl, Igor and Julia (from left to right on Sept. 16) were part of the onslaught of Atlantic storms this season. Credit: NOAA

(PhysOrg.com) -- According to NOAA the 2010 Atlantic hurricane season, which ends tomorrow, was one of the busiest on record. In contrast, the eastern North Pacific season had the fewest storms on record since the satellite era began.

In the Atlantic Basin a total of 19 named storms formed – tied with 1887 and 1995 for third highest on record. Of those, 12 became hurricanes – tied with 1969 for second highest on record. Five of those reached major [hurricane](#) status of Category 3 or higher.

These totals are within the ranges predicted in NOAA's seasonal outlooks issued on May 27 (14-23 named storms; 8-14 hurricanes; 3-7 major hurricanes) and August 5 (14-20 named storms; 8-12 hurricanes;

4-6 major hurricanes). An average Atlantic season produces 11 named storms, six hurricanes and two major hurricanes.



2010 track map for the Atlantic Basin. Credit: NOAA

Large-scale climate features strongly influenced this year’s hurricane activity, as they often do. This year, record warm Atlantic waters, combined with the favorable winds coming off Africa and weak wind shear aided by La Niña energized developing storms. The 2010 season continues the string of active hurricane seasons that began in 1995.

But short-term weather patterns dictate where storms actually travel and in many cases this season, that was away from the United States. The jet stream’s position contributed to warm and dry conditions in the eastern U.S. and acted as a barrier that kept many storms over open water. Also, because many storms formed in the extreme eastern Atlantic, they re-curved back out to sea without threatening land.

“As NOAA forecasters predicted, the [Atlantic hurricane season](#) was one of the most active on record, though fortunately most storms avoided the U.S. For that reason, you could say the season was a gentle giant,” said

Jack Hayes, Ph.D., director of NOAA's National Weather Service.



2010 track map for the eastern North Pacific Basin. Credit: NOAA

Other parts of the [Atlantic basin](#) weren't as fortunate. Hurricane Tomas brought heavy rain to earthquake-ravaged Haiti, and several storms, including Alex, battered eastern Mexico and Central America with heavy rain, mudslides and deadly flooding.

Though La Nina helped to enhance the Atlantic hurricane season, it also suppressed storms from forming and strengthening in the eastern North Pacific. Of that region's seven named storms this year, three grew into hurricanes and two of those became major hurricanes. This is the fewest named storms (previous record low was eight in 1977) and the fewest hurricanes (previous record low was four in 1969, 1970, 1977 and 2007) on record since the [satellite](#) era began in the mid-1960s. An average eastern North Pacific season produces 15 named storms, nine hurricanes and four major hurricanes.

Provided by NOAA

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